

CLAIMS

- 1) A nucleic acid fragment comprising:
- 5 a) a sequence encoding a plant LPAAT, the peptide sequence of which shows at least 20% identity with the sequence SEQ ID NO: 2; and/or
- b) a sequence complementary to the coding sequence a) above.
- 10 2) The nucleic acid fragment as claimed in claim 1, characterized in that said coding sequence encodes the polypeptide of sequence SEQ ID NO: 2.
- 15 3) A nucleic acid fragment of more than 20 bp, capable of hybridizing specifically, under stringent conditions, with a coding sequence as defined in either of claims 1 and 2, with the exception of the fragments consisting of an oligonucleotide encoding one of the following peptide sequences:
- FPEGTRS;
- PFKKGA;
- 20 or of the sequence complementary thereto.
- 4) A recombinant vector containing a nucleic acid fragment as claimed in any one of claims 1 to 3.
- 25 5) A cell transformed with at least one nucleic acid fragment as claimed in any one of claims 1 to 3.
- 6) The transformed cell as claimed in claim 5, characterized in that it is a plant cell.
- 30 7) A transgenic plant transformed with at least one nucleic acid fragment as claimed in any one of claims 1 to 3.
- 8) The use of a nucleic acid fragment as claimed in any one of claims 1 to 3, for regulating LPAAT activity in a plant.
- 35 9) The use as claimed in claim 8, characterized in that said plant is rapeseed.

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10) The use as claimed in either of claims 8 and 9, characterized in that said nucleic acid fragment is used in the antisense orientation.

11) The use as claimed in claim 10,
5 characterized in that said nucleic acid fragment is used to express a functional LPAAT.

12) The use as claimed in claim 11, characterized in that said LPAAT is deleted of its sequence for being directed into plasts.

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